

## Patent Abstracts of Japan

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APPLICANT : SUMITOMO CHEM CO LTD;

INVENTOR : NAKAYAMA ISAMU;

INT.CL. : A01N 43/40 A01N 43/30 //(A01N 43/40 , A01N 43/30 )

TITLE : INSECTICIDAL COMPOSITION

ABSTRACT : PURPOSE: An insecticidal composition having remarkable insecticidal effects and safe for men and cattle without environmental pollution, and containing an insecticidal constituent of an unsaturated amide in pepper, or pellitorin of low insecticidal activity and a noninsecticidal constituent piperine as active constituents.

CONSTITUTION: An insecticidal composition containing  
N-isobutyl-11-(3,4-methylenedioxyphenyl)-2E,4E-undecadienamide (novel insecticidal compound in pepper),  
N-isobutyl-13-(3,4-methylenedioxyphenyl)-2E,4E,12E-tridecatrienamide (the insecticidal activity has been found newly), N-isobutyl-11-(3,4-methylenedioxyphenyl)-2E,4E,10E-undecatrienamide or N-isobutyl-2E,4E-decadienamide (pellitorin) and N-piperidyl-5-(3,4-methylenedioxyphenyl)-2E,4E-pentadienamide (piperine) as active constituents. The effect of the composition is enhanced by adding the piperine thereto.

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AN - 2004-210963 [20]

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CPY - KOFO-N

DC - C03

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IC - A01N65/00

IN - AHN Y J; LEE S G; PARK I G; PARK J D; SHIN S C

MC - C04-A08 C04-A09 C04-A10 C11-B C14-B01 C14-B05

PA - (KOFO-N)-KOREA-FORESTRY ADMIN FORESTRY RES

PN - KR2003075774 A 20030926 DW200420 A01N65/00 001pp

PR - KR20020015141 20020320

XA - C2004-083638

XIC - A01N-065/00

AB - KR2003075774 NOVELTY - An insecticidal composition containing a Piper nigrum extract having insecticidal properties against agricultural pests, hygiene pests and forest pests and feeding inhibition properties is provided which is harmless to the human body and exhibits insecticidal properties against *Plutella xylostella*, *Culex pipiens pallens*, *Aedes aegypti*, *Aedes togol*, *Malacosoma neustria testacea*.

- DETAILED DESCRIPTION - An insecticidal composition contains as an effective component one or more materials selected from the group consisting of a Piper nigrum extract, pipeline, pellitorine, guineensine, piperidine and retrofractamide A. The Piper nigrum extract is obtained by extraction of fruits of Piper nigrum in a solvent such as methanol, hexane and chloroform. The composition has feeding inhibition properties against *Agelastica coerulea* and *Hyphantria cunea*.
- (Dwg.1/10)

IW - INSECT BACTERIA COMPOSITION CONTAIN PIPE NIGRUM EXTRACT EFFECT  
INGREDIENT

IKW - INSECT BACTERIA COMPOSITION CONTAIN PIPE NIGRUM EXTRACT EFFECT  
INGREDIENT

INW - AHN Y J; LEE S G; PARK I G; PARK J D; SHIN S C

NC - 001

OPD - 2002-03-20

ORD - 2003-09-26

PAW - (KOFO-N) KOREA FORESTRY ADMIN FORESTRY RES

TI - Insecticidal and bactericidal composition containing piper nigrum  
extract as effective ingredient